

Avian Molecular Evolution And Systematics

Aequornithes "An unbiased molecular approach using 3'-UTRs resolves the avian family-level tree of life"; doi:10.1016/j.ymolpev.2020.100810 Aequornithes (, from Latin aequor, expanse of water + Greek ornithes, birds), or core water birds, are defined in the PhyloCode as "the least inclusive crown clade containing *Pelecanus onocrotalus* and *Gavia immer*", that is, the last common ancestor of the great white pelican and the common loon, as well as its descendants, extinct and extant. (2020). 38: 108–127. Molecular Biology and Evolution 09a8f53da2

The scientific theory of evolution by natural selection was conceived independently by two British naturalists, Charles Darwin and Alfred Russel Wallace, in the mid-19th century as an explanation for why organisms are adapted to their physical and biological environments. The theory was first set out in detail in Darwin's book *On the Origin of Species*. Evolution by... 09a8f53da2

Carterornis Filardi, C. aviansystematics. org. ; Smith, C. E. (2005). E. The Trust for Avian Systematics. "Molecular phylogenetics of monarch flycatchers *Carterornis* is a genus of birds in the family Monarchidae that are found in Australia and Melanesia. Retrieved 2023-07-16 09a8f53da2

Evolution It occurs when evolutionary processes such as natural selection and genetic drift act on genetic variation, resulting in certain characteristics becoming more or less common within a population over successive generations. The process of evolution has given rise to biodiversity at every level of biological organisation. Noboru Sueoka and Ernst Freese proposed that systematic biases Evolution is the change in the heritable characteristics of biological populations over successive generations. tendencies in evolution, until the molecular era prompted renewed interest in neutral evolution 09a8f53da2

Evolution of birds Modern phylogenies place birds in the dinosaur clade Theropoda. There is significant The evolution of birds began in the Jurassic Period, with the earliest birds derived from a clade of theropod dinosaurs named Paraves. Birds are categorized as a biological class, Aves. According to the current consensus, Aves and a sister group, the order Crocodilia, together are the sole living members of an unranked reptile clade, the Archosauria. Currently, the relationship between non-avian dinosaurs, Archaeopteryx, and modern birds is still under debate. termed Avialae. Four distinct lineages of bird survived the Cretaceous–Paleogene extinction event 66 million years ago, giving rise to ostriches and relatives (Palaeognathae), waterfowl (Anseriformes), ground-living fowl (Galliformes), and. For more than a century, the small theropod dinosaur Archaeopteryx lithographica from the Late Jurassic period was considered to have been the earliest bird

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In biology, evolution is change in the heritable characteristics of biological organisms over generations due to natural selection, mutation, gene flow, and genetic drift. Also known as descent with modification. Over time these evolutionary processes lead to formation of new species (speciation), changes within lineages (anagenesis), and loss of species (extinction). "Evolution" is also another name for evolutionary biology, the subfield of biology concerned with studying evolutionary processes that produced the diversity of life on Earth.

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Outline of evolution paleontology Systematics – Branch of biology Charles Darwin – English naturalist and biologist (1809–1882) On the Origin of Species – 1859 book on evolution by The following outline is provided as an overview of and topical guide to evolution:

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The monophyly of the group is currently supported by several molecular phylogenetic studies.

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David Mindell He is known for David P. Mindell's work is focused on the systematics, conservation and molecular evolution of birds, especially birds of prey. He is currently a senior researcher at the University of California, Berkeley, Museum of Vertebrate Zoology. Mindell's work is focused on the systematics, conservation and molecular evolution of birds, especially birds of prey. Mindell is an American evolutionary biologist and author. Vertebrate Zoology. He is known for his

2006 book, *The Evolving World* in which he explained, for the general public, how evolution applies to everyday life
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From 1994 to 2008 Mindell was Professor of ecology and evolutionary biology and Curator of birds at the University of Michigan. He served as Dean of Science and Harry & Diana Hind Chair at the California Academy of Sciences between 2008 and 2011, and was Program Director in the Division of Environmental Biology at the US National Science Foundation during 2012 to 2016... 09a8f53da2

Molecular evolution Molecular evolution is the basis of phylogenetic approaches to describing the tree of life. Molecular evolution describes how inherited DNA and/or RNA change over evolutionary time, and the consequences of this for proteins and other components Molecular evolution describes how inherited DNA and/or RNA change over evolutionary time, and the consequences of this for proteins and other components of cells and organisms. Topics in molecular evolution include the origins of new genes, the genetic nature of complex traits, the genetic basis of adaptation and speciation, the evolution of development, and patterns and processes underlying genomic changes during evolution. Molecular evolution overlaps with population genetics, especially on shorter timescales 09a8f53da2

Aequornithes includes the clades Gaviiformes (loons), Sphenisciformes (penguins), Procellariiformes (petrels and albatrosses), Ciconiiformes (storks), Suliformes (gannets and cormorants) and Pelecaniformes (pelicans). It does not include several unrelated groups of aquatic birds such as flamingos and grebes (Mirandornithes), shorebirds, gulls, and auks (Charadriiformes... 09a8f53da2

Stenostiridae 1016/j Stenostiridae, or the fairy flycatchers, are a family of small passerine birds proposed as a result of recent discoveries in molecular systematics. *Molecular Phylogenetics and Evolution* 38(2): 381–397. They are also referred to as stenostirid warblers. Sundberg, Per (2006): Phylogeny and classification of the avian superfamily Sylvioidea. doi:10
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Allan J. Baker Haddrath, Oliver, and Allan J. "Complete mitochondrial Allan John Baker (9 July 1943 – 20 November 2014) was a Canadian ornithologist of New Zealand descent. " Avian molecular evolution and systematics (1997): 51–82. Baker. sequences as tools for understanding evolution. He was an authority on wading birds; red knots in particular were one of his main research fields 09a8f53da2

Avian malaria As research on human malaria parasites became difficult, Dr. Ross studied avian malaria parasites. The disease is transmitted by a dipteran vector including mosquitoes in the case of Plasmodium parasites and biting midges for Hemoproteus. The diversity of parasites is large, as it is estimated that there are approximately as many parasites as there are species of hosts. The range of symptoms and effects of the parasite on its bird hosts is very wide, from asymptomatic cases to drastic population declines due to the disease, as is the case of the Hawaiian honeycreepers. Avian malaria is a parasitic disease of birds, caused by parasite species belonging to the genera Plasmodium and Hemoproteus (phylum Apicomplexa, class Avian malaria is a parasitic disease of birds, caused by parasite species belonging to the genera Plasmodium and Hemoproteus (phylum Apicomplexa, class Haemosporidia, family Plasmodiidae). Co-speciation and host switching events 09a8f53da2

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